

# ND6x

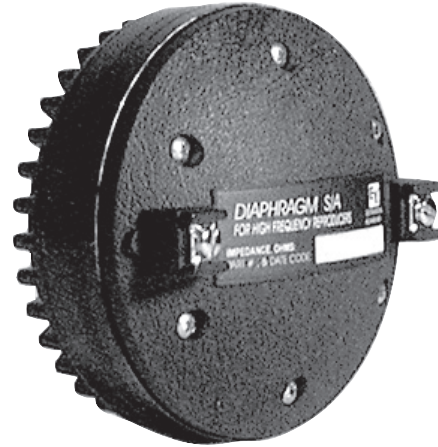
HIGH FREQUENCY TRANSDUCER

ND6x-8/ND6x-16  
3-Inch High Frequency  
Neodymium Transducer



## Key Features:

- Extremely high acoustic output
- Geometrically optimized titanium diaphragm
- Very high sensitivity and reliability
- 500 Hz minimum crossover frequency
- Compact, rugged and light weight
- 1.4" exit diameter
- 2.0" exit diameter with ADH-6 adapter
- Die-cast aluminum heatsink



## General Description:

The Electro-Voice ND6x is a world-class high-frequency compression driver capable of extremely high acoustic output over a wide frequency range.

Precise engineering, along with careful selection of materials and advanced driver architecture, has resulted in a driver that is ideally suited for the most demanding presentation of high quality music and communications program.

Incorporating Electro-Voice's exclusive Ring Mode Decoupling (RMD) through all design phases has produced drivers with unmatched accuracy while minimizing acoustic resonances and time domain ringing throughout the driver structure.

The small size and weight-to-power ratio of the ND6x assures easy installations where weight may be a concern. The 2.15 Tesla flux density provided by the Neodymium magnet exceeds that of conventional drivers at a fraction of the size.

A unique, geometrically optimized 3" titanium diaphragm, consisting of a one-piece dome and suspension system gives these drivers an ideal combination of superb high-frequency response and resistance to fatigue.

Integrated into the ND6x's design is a finned aluminum heatsink to increase power handling and reliability.

The ND6x is recommended for all large horn installations where lower crossover points are required, such as cinema applications

## Technical Specifications:

	ND6x-8	ND6x-16
Nominal Impedance:	8 ohms	16 ohms
Minimum Impedance:	7 ohms @ 6 kHz	14 ohms
DC Resistance:	4.5 ohms	10 ohms
Freq. Response:	500-20,000 Hz	
Power Capacity:	50 Watts <sup>1</sup> , 100 Watts Cont. Prog.	
Recommended Crossover :	500 Hz or higher	
Nominal Efficiency:	28%	
Sound Pressure Level <sup>2</sup> : (1 Watt @ 1 Meter)	115 dB, HP4020 Horn 113 dB, HP6040 Horn 111 dB, HP9041 Horn	
Throat Diameter:	1.38" (35mm)	
Voice Coil Diameter:	3" (75 mm)	
Voice Coil Wire:	Pure Aluminum Ribbon	
Diaphragm Construction:	0.04 mm Pure Titanium Dome and Surround	
Electrical Connection:	Screw Terminals (Accepts a pair of 12GA Wires)	
Polarity:	Positive Voltage to Positive Terminal Produces a Positive Acoustic Pressure	
Flux Density:	2.15 Tesla	
Net Weight (each):	5.5 lbs (2.5 kg)	
Shipping Weight:	6.5 lbs (3.0 kg)	

<sup>1</sup> Power capacity per AES standard. Continuous pink noise, 500 - 5000 Hz with a 6 dB crest factor, 2 hours.

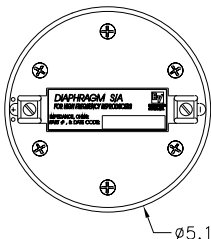
<sup>2</sup> Sound Pressure measured on axis in the far field with 1 Watt input of band-limited pink noise from 1000 - 5000 Hz and calculated to 1 Meter equivalent by inverse square law.

## General Description (Cont'):

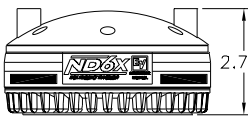
Pure aluminum rectangular voice coil wire is used to obtain the highest sensitivity. Proprietary bonding and winding technologies assure unsurpassed reliability.

Electro-Voice's commitment to precision compression driver manufacturing and modern design techniques assure the ND6x user the highest level of audio and engineering excellence.

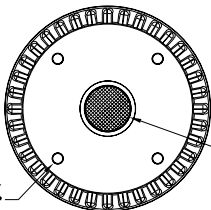
## Dimension Drawings:



Top View



Side View

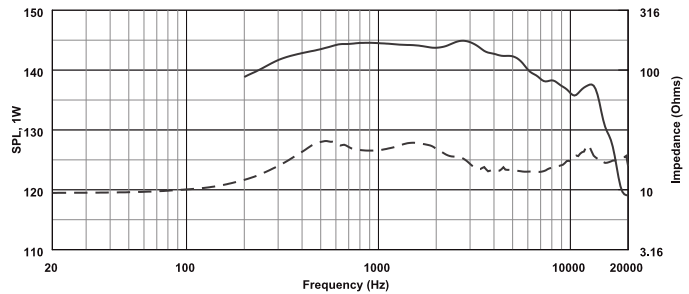


Bottom View

1/4-20 x 4  
ON A 3.5"  
BOLT CIRCLE

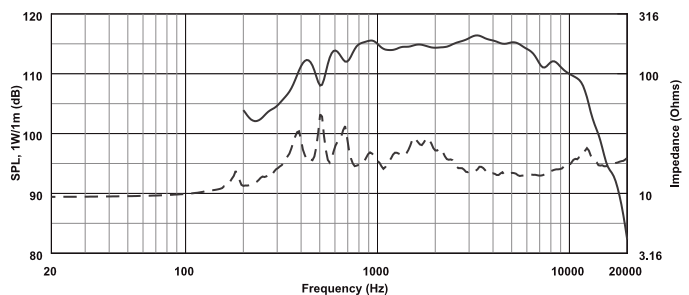
Ø1.38" EXIT

## Frequency Response (On a Tube):



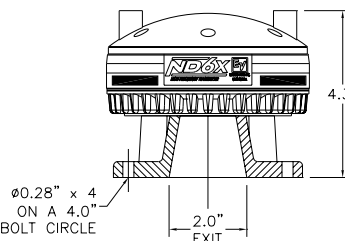
Note: Frequency response and impedance of the ND6x-16 driver attached to a 38mm (1.5") diameter plane wave tube, using one watt input (4 Vrms).

## Frequency Response (On an HP4020 Horn):



Note: Frequency response and impedance of the ND6x-16 driver attached to an HP4020 Horn, measured on axis in the far field using one watt input (4 Vrms). SPL calculated to 1 meter equivalent by inverse square law.

## Dimension Drawings (Cont'):



Side View  
(Shown with  
Optional ADH-6  
Adapter)

Ø0.28" x 4  
ON A 4.0"  
BOLT CIRCLE

2.0"  
EXIT

## Accessories:

- ADH-6 Adapter (For 2" Exit) 591183-102  
(must be purchased separately)

ND6x-8 Part Number: 301251-102  
ND6x-16 Part Number: 301252-102



12000 Portland Avenue South, Burnsville, MN 55337  
Phone: 952/884-4051, Fax: 952/884-0043

[www.electrovoice.com](http://www.electrovoice.com)

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Part Number 38110-092 Rev. A

U.S.A. and Canada only. For customer orders, contact Customer Service at:  
800/392-3497 Fax: 800/955-6831

Europe, Africa, and Middle East only. For customer orders, contact Customer Service at:  
+ 49 9421-706 0 Fax: + 49 9421-706 265

Other International locations. For customer orders, contact Customer Service at:  
+ 1 952 884-4051 Fax: + 1 952 887-9212

For warranty repair or service information, contact the Service Repair department at:  
800/685-2606

For technical assistance, contact Technical Support at: 866/78AUDIO

Specifications subject to change without notice.